MONITOR SYSTEMS
an AYDIN company
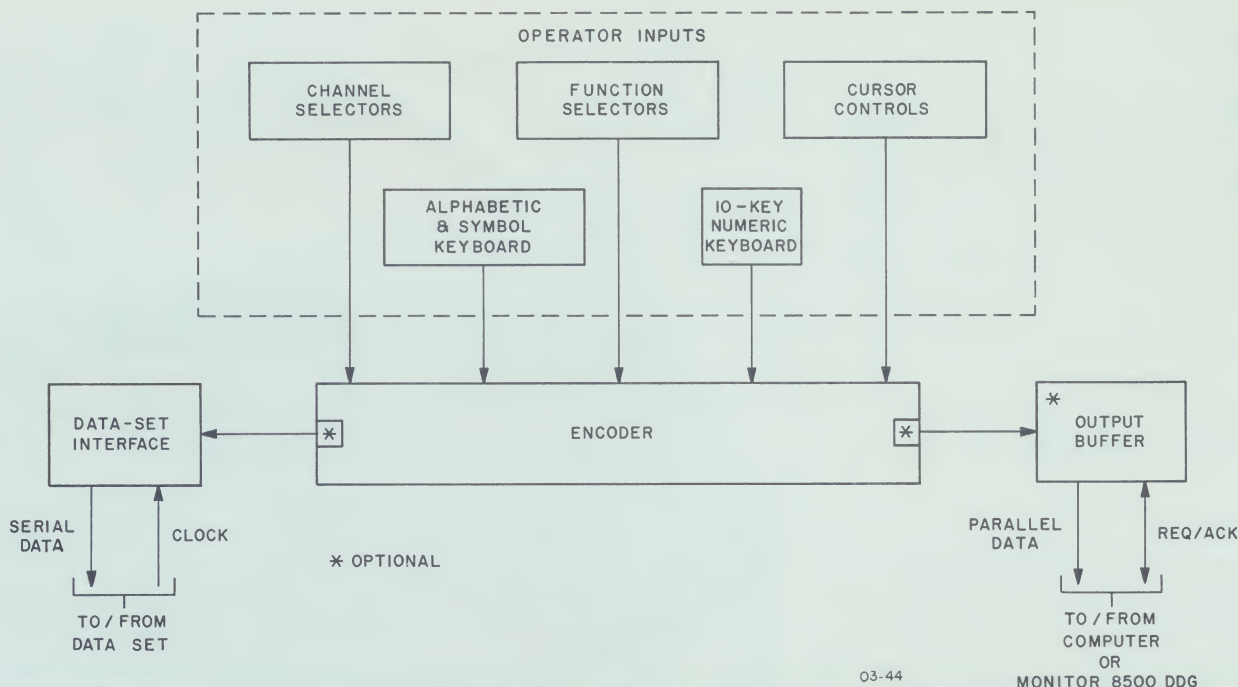
MONITOR 8540

DISPLAY EDITOR

for use with
Monitor 8500
Digital Display Generator
and other
Display Systems

The MONITOR 8540 Display Editor is a compact, portable unit for man-machine communication in conjunction with cathode-ray-tube displays. It converts operator inputs into electronic signals for connection to a general-purpose digital computer or to a display generator such as the MONITOR 8500 (see separate brochure).

DESIGN FEATURES

- STANDARD ALPHABETIC KEYBOARD similar to that of a conventional electric typewriter.
- SEPARATE NUMERIC KEYBOARD similar to that of a conventional 10-key adding machine.
- CHANNEL SELECTION KEYS for choice of display in multi-channel system.
- FUNCTION SELECTION KEYS labeled by replacable transparent overlay, with edge-notched key.

- CURSOR CONTROLS for up-down, left-right slewing and positioning of a position marker on the display.
- SYSTEM INTERFACE for transfer of instructions as bit-parallel words with ready-acknowledge control to a computer or a MONITOR 8500 Digital Display Generator.
- DATA-SET INTERFACE in lieu of the direct-connected System Interface as an optional integral facility for converting outputs to serial form, as required for common-carrier communications links.

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                    OPERATOR INPUTS
   ┌─────────────────────────────────────────────────────────────┐
   │  ┌──────────┐        ┌──────────┐        ┌──────────┐        │
   │  │ CHANNEL  │        │ FUNCTION │        │  CURSOR  │        │
   │  │SELECTORS │        │SELECTORS │        │ CONTROLS │        │
   │  └──────────┘        └──────────┘        └──────────┘        │
   │         ┌──────────────┐     ┌──────────────┐                │
   │         │ ALPHABETIC   │     │  IO-KEY      │                │
   │         │ & SYMBOL     │     │  NUMERIC     │                │
   │         │ KEYBOARD     │     │  KEYBOARD    │                │
   │         └──────────────┘     └──────────────┘                │
   └─────────────────────────────────────────────────────────────┘
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DATA-SET INTERFACE   ENCODER   OUTPUT BUFFER

SERIAL DATA   CLOCK

* OPTIONAL

PARALLEL DATA   REQ/ACK

TO / FROM DATA SET

03-44

TO / FROM COMPUTER OR MONITOR 8500 DDG

SPECIFICATIONS

LOCAL EDIT OUTPUT *(Optional in lieu of Remote)*:

16-bit parallel data transfer to nearby computer or MONITOR 8500 Digital Display Generator.

Request-Acknowledge control.

Levels 0 and +5 volts.

8 bit output bytes optional.

On special order, interfaces for any GP computer.

REMOTE EDIT OUTPUT *(Optional in lieu of Local)*:

Serial data transfer of 16 bits per operator action at rate compatible with modem: 1200, 2400, 4800, or 40,800 baud.

Transmit-only standard. Half duplex, full duplex communication optional.

Levels compatible with EIA RS-232.

KEYBOARDS:

Typewriter keyboard comprising 26 alphabetic characters and 28 symbols, plus separate 10-key aggregate for numerals.

Character code up to eight bits. ASCII standard, others available.

FUNCTION SELECTION *(Optional, for computer only)*:

Four fixed-function selectors, together with nine varible-function selectors coded with a plastic notched overlay permitting one of up to 64 different nine-bit codes to be transmitted when a new selection is made.

CHANNEL SELECTION:

Ten switches for identifying display channel(s) to which output is directed. For direct connection to MONI-TOR 8500, only one channel may be selected at a time.

CURSOR CONTROLS:

By use of four directional pushbuttons, the operator may control a cursor on the channel(s) selected, moving it one display element in the selected direction. Holding a switch for a period in excess of 1 sec causes the cursor to slew in the selected direction.

ERROR LOCKOUT:

Transfer of new operator-selected data is disabled until the previous data has been transmitted.

TECHNOLOGY:

High-reliability integrated circuits on field-proven logic cards. Sliding drawers permit front access for most maintenance operations. See separate brochure on MONILOGIC for description.

POWER INPUT:

Commercial mains; nominal 115 volts, 60 Hz, single phase, less than one ampere.

ENVIRONMENT:

Ambient temperature 50°F to 100°F. Relative humidity to 95%, without condensation. Other ranges on special order.

SIZE:

16" x 6" x 10", complete, including self-contained power supplies and all interface circuitry.

WEIGHT:

20 lbs., approximately.